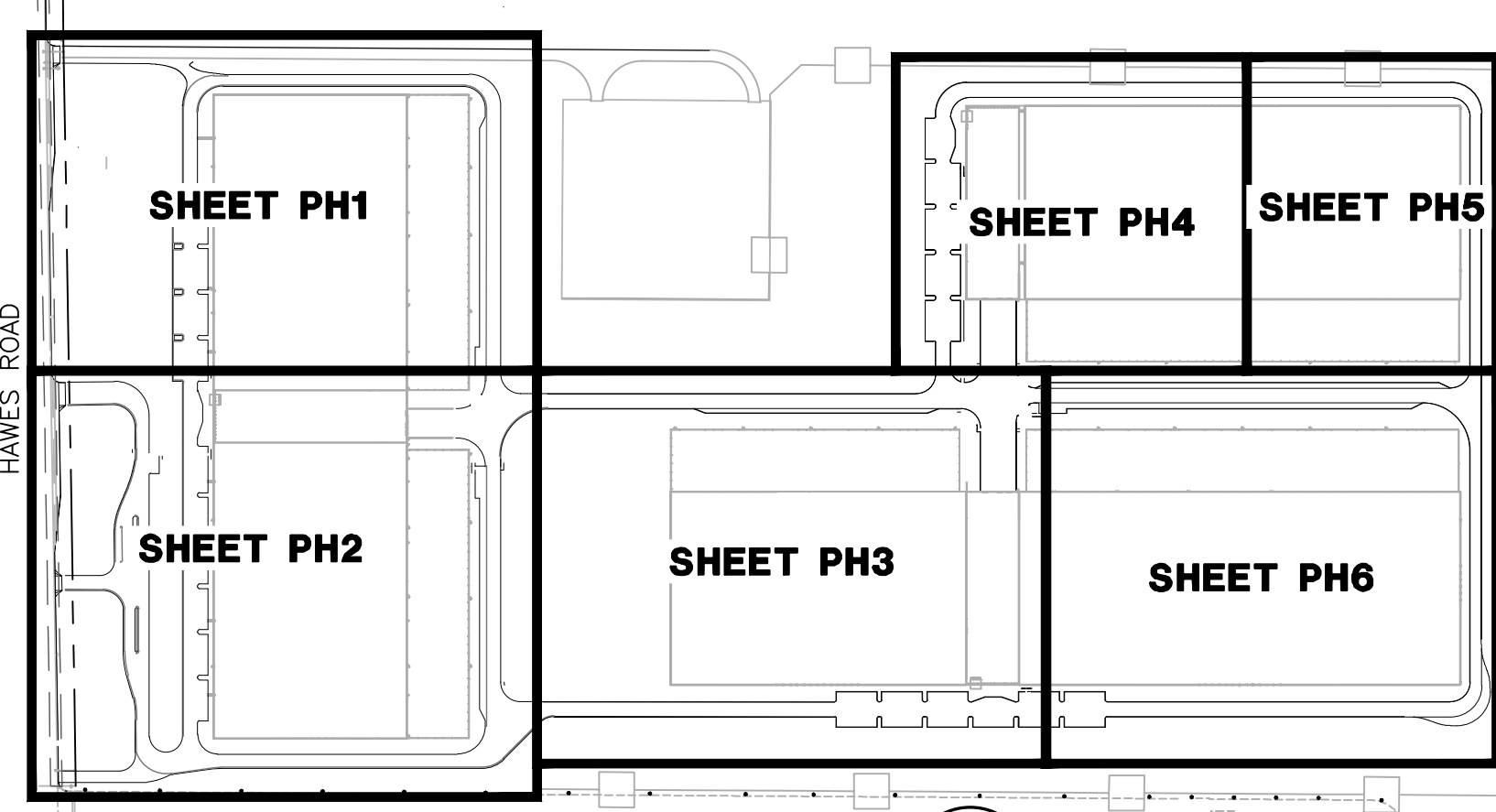


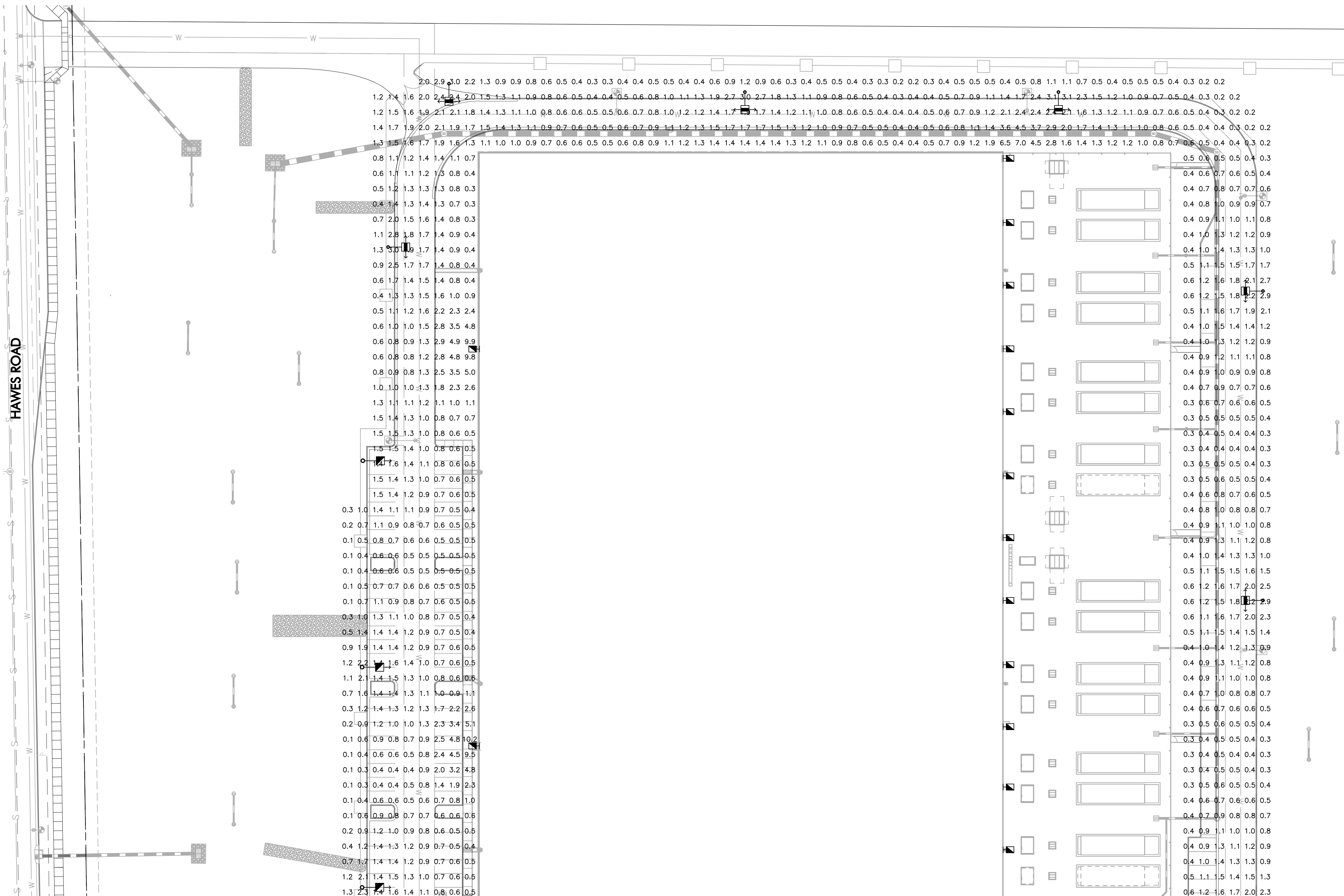
MESA EDGECONNEX

PHOTOMETRIC PLAN

MESA, ARIZONA



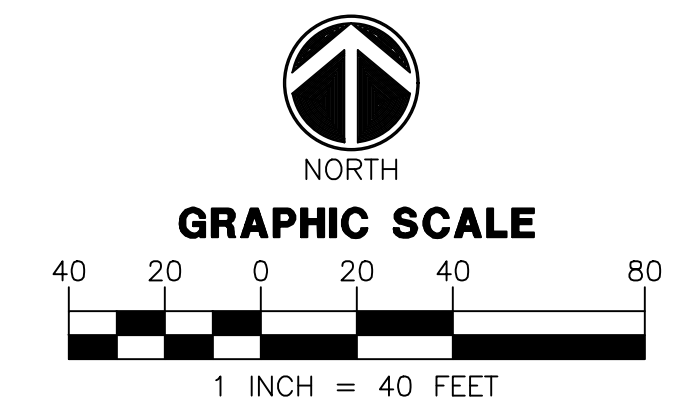
AREA MAP
NOT TO SCALE



MATCHLINE 'A' SEE SHEET PH2

PHOTOMETRIC LEGEND

- COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON
GALN-SA2C-730-U-SWQ
candela file 'GALN-SA2C-730-U-SWQ_13476 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1,000, watts per luminaire = 108
mounting height= 30 ft
number locations= 7, number luminaires= 7
kw all locations= 0.8
- COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON
GALN-SA2C-730-U-SL3
candela file 'GALN-SA2C-730-U-SL3_12762 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1,000, watts per luminaire = 108
mounting height= 30 ft
number locations= 17, number luminaires= 17
kw all locations= 1.8
- COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON
GALN-SA2C-730-U-T4FT
candela file 'GALN-SA2C-730-U-T4FT_12847 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1,000, watts per luminaire = 108
mounting height= 30 ft
number locations= 33, number luminaires= 33
kw all locations= 3.6
- COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON
GALN-SA2C-730-U-SL2
candela file 'GALN-SA2C-730-U-SL2_12852 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1,000, watts per luminaire = 108
mounting height= 30 ft
number locations= 75, number luminaires= 75
kw all locations= 8.1
- COOPER LIGHTING SOLUTIONS
IST-SA1E-730-U-T4W
candela file 'IST-SA1E-730-U-T4W.ies'
16 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1,000, watts per luminaire = 58
mounting height= 12 ft
number locations= 66, number luminaires= 66
kw all locations= 3.8
- Lithonia Lighting WDG3 LED P2 70CRI R4 40K
candela file 'WDG3 LED P2 70CRI R4 40K.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1,000, watts per luminaire = 59
mounting height= 12 ft
number locations= 86, number luminaires= 86
kw all locations= 5.1



CALCULATIONS

Parking Lot
7519 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 1.0
Maximum 16.2
Minimum 0.1
Avg:Min 10.10
Max:Min 162.00
Coef Var 1.01
UnifGrad 8.49



WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us Project # 23266

BCEI
BURR COMPUTER ENVIRONMENTS, INC.
10400 Rodgers Road HOUSTON, TEXAS 77070 Ph: 281-374-8644 Fax: 281-374-8992
MEFP ENGINEERS

HKS
CONSULTING ARCHITECTS
3131 E. Camelback Road Suite # 400 Phoenix, AZ 85016 602.462.0966

CARUSO-TURLEY-SCOTT
CONSULTING STRUCTURAL ENGINEERS
1215 W. Rio Salado Pkwy Suite # 200 Tempe, AZ 85281 Phone: 480.774.1700

HUBBARD
ENGINEERING
CONSULTING CIVIL ENGINEERS
1201 S. Alma School Rd Suite # 12000 Mesa, AZ 85210 Phone: 480.892.3313

edgeconnex
SITE ID: EDCPHX11
ADDRESS
3261 S. HAWES RD
MESA, AZ 85212

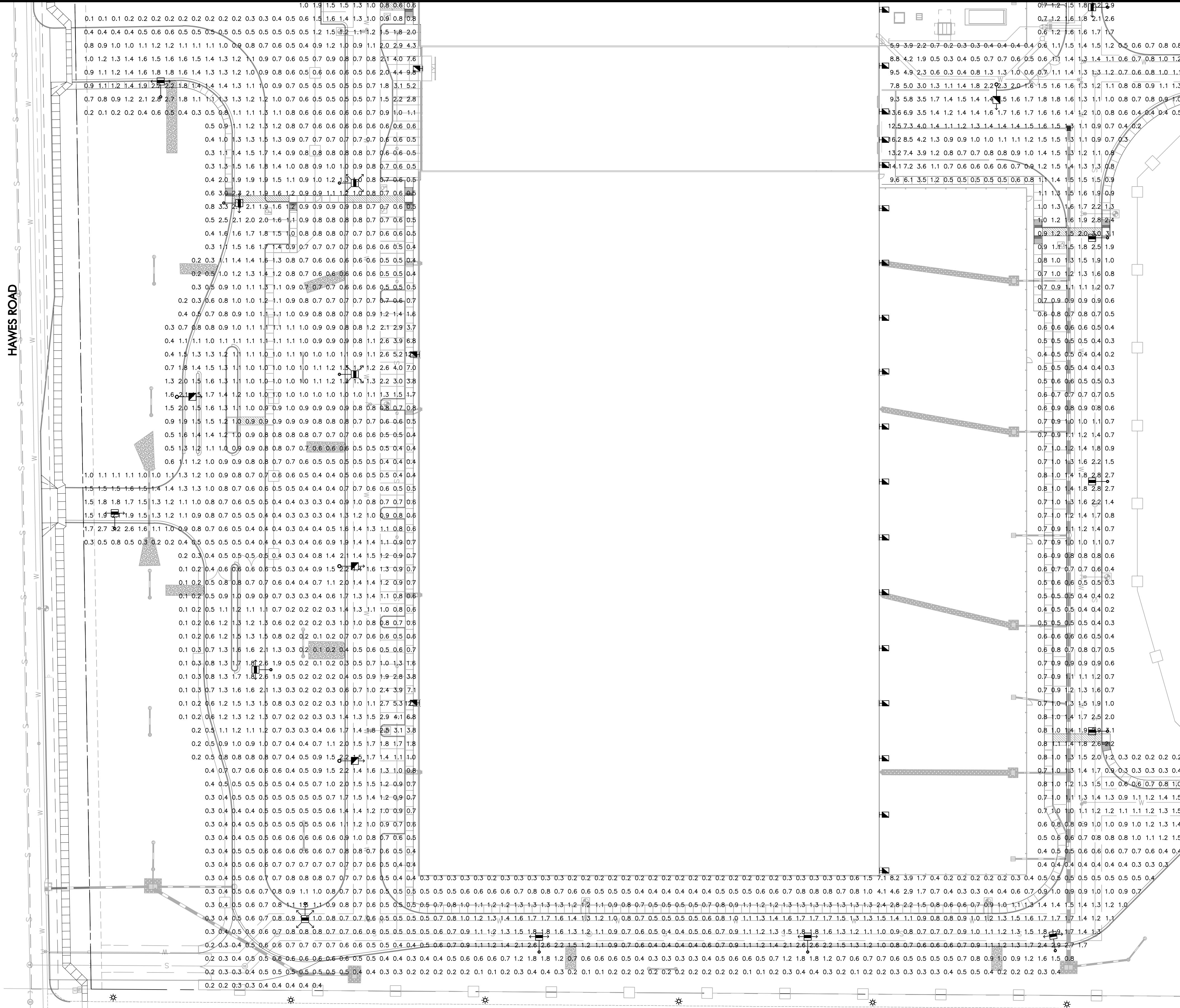
ISSUES & REVISIONS		
No.	Date	Description

Professional Engineer Seal
46691
ADAM M. BOWERS
Exp. 12/31/2022

SHEET TITLE
SITE PHOTOMETRIC PLAN

DRAWN: TDN
REVIEWED: AMB
PROJECT NO.: C2383
SHEET NO.
PH1
PROPRIETARY - NOT FOR DISCLOSURE OR USE WITHOUT THE WRITTEN CONSENT OF BURR COMPUTER ENVIRONMENTS, INC.

MATCHLINE 'A' SEE SHEET PH1



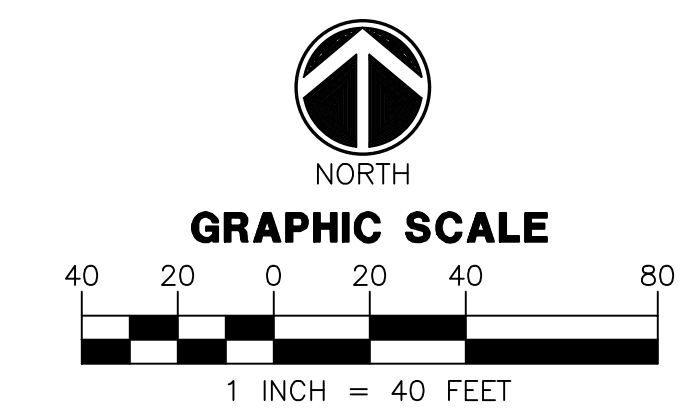
MATCHLINE 'B' SEE SHEET PH3

CALCULATIONS

Parking Lot
7519 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 1.0
Maximum 16.2
Minimum 0.1
Avg:Min 10.10
Max:Min 162.00
Coef Var 1.01
UnifGrad 8.49

PHOTOMETRIC LEGEND

- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-5WQ
candela file 'GALN-SA2C-730-U-5WQ_13476 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 7, number luminaires= 7
kw all locations= 0.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL3
candela file 'GALN-SA2C-730-U-SL3_12762 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 17, number luminaires= 17
kw all locations= 1.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-T4FT
candela file 'GALN-SA2C-730-U-T4FT_12847 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 33, number luminaires= 33
kw all locations= 3.6
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL2
candela file 'GALN-SA2C-730-U-SL2_12852 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 75, number luminaires= 75
kw all locations= 8.1
- COOPER LIGHTING SOLUTIONS
IST-SA1E-730-U-T4W
candela file 'IST-SA1E-730-U-T4W.ies'
16 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 58
mounting height= 12 ft
number locations= 66, number luminaires= 66
kw all locations= 3.8
- Lithonia Lighting WDG3 LED P2 70CRI R4 40K
candela file 'WDG3 LED P2 70CRI R4 40K.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 59
mounting height= 12 ft
number locations= 86, number luminaires= 86
kw all locations= 5.1



BCEI
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HOUSTON, TEXAS 77070
MEFP ENGINEERS
Ph: 281-374-8644
Fax: 281-374-8692

HKS
CONSULTING ARCHITECTS
3131 E. Camelback Road Suite # 400
Phoenix, AZ 85016
602.462.0966

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CONSULTING STRUCTURAL ENGINEERS
1215 W. Rio Salado Pkwy Suite # 200
Tempe, AZ 85281
Phone: 480.774.1700

HUBBARD ENGINEERING
CONSULTING CIVIL ENGINEERS
1201 S. Alma School Rd Suite # 12000
Mesa, AZ 85210
Phone: 480.892.3313

edgeconnex
SITE ID: EDCPH11
ADDRESS:
3261 S. HAWES RD
MESA, AZ 85212

ISSUES & REVISIONS

No.	Date	Description

Professional Engineer Seal
46691
ADAM M. BOWERS
Exp. 12/31/2023
1/1/2018

SHEET TITLE
SITE PHOTOMETRIC PLAN

DRAWN: TDN
REVIEWED: AMB
PROJECT NO.: C2383
SHEET NO.
PH2
PROPRIETARY - NOT FOR DISCLOSURE OR USE WITHOUT THE WRITTEN CONSENT OF BURR COMPUTER ENVIRONMENTS, INC.

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
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HKS

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Phoenix, AZ 85016
602.462.0966

CARUSO-TURLEY-SCOTT

CONSULTING STRUCTURAL ENGINEERS
1215 W. Rio Salado Pkwy Suite # 200
Tempe, AZ 85281
Phone: 480.774.1700

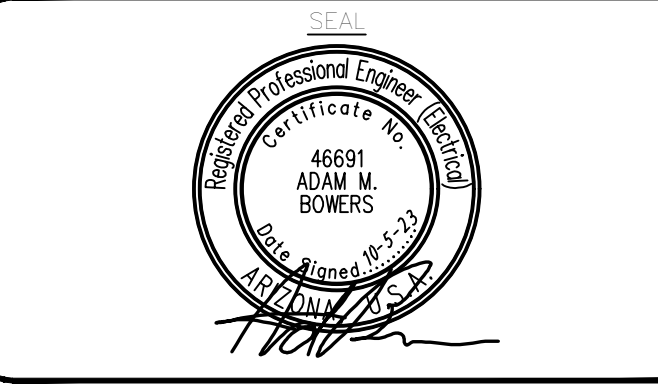
HUBBARD ENGINEERING

CONSULTING CIVIL ENGINEERS
1201 S. Alma School Rd Suite # 12000
Mesa, AZ 85210
Phone: 480.892.3313

edgeconnex

SITE ID: EDCPHX11
ADDRESS: 3261 S. HAWES RD
MESA, AZ 85212

ISSUES & REVISIONS		
No.	Date	Description



SHEET TITLE
SITE PHOTOMETRIC PLAN

DRAWN: TDN
REVIEWED: AMB
PROJECT NO.: 02383

SHEET NO.
PH3

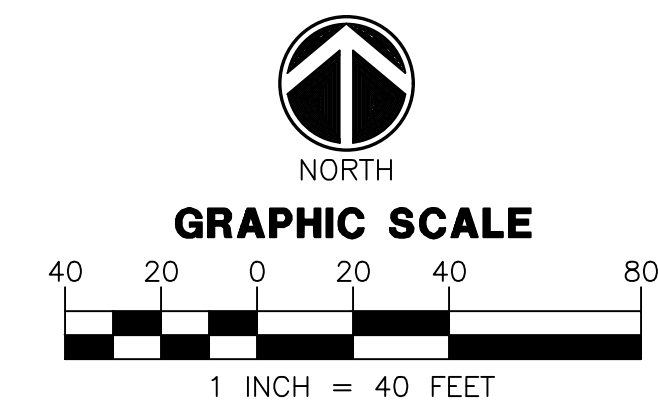
PROPRIETARY - NOT FOR DISCLOSURE OR USE WITHOUT THE WRITTEN CONSENT OF BURR COMPUTER ENVIRONMENTS, INC.

CALCULATIONS

Parking Lot
7519 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 1.0
Maximum 16.2
Minimum 0.1
Avg:Min 10.10
Max:Min 162.00
Coef Var 1.01
UnifGrad 8.49

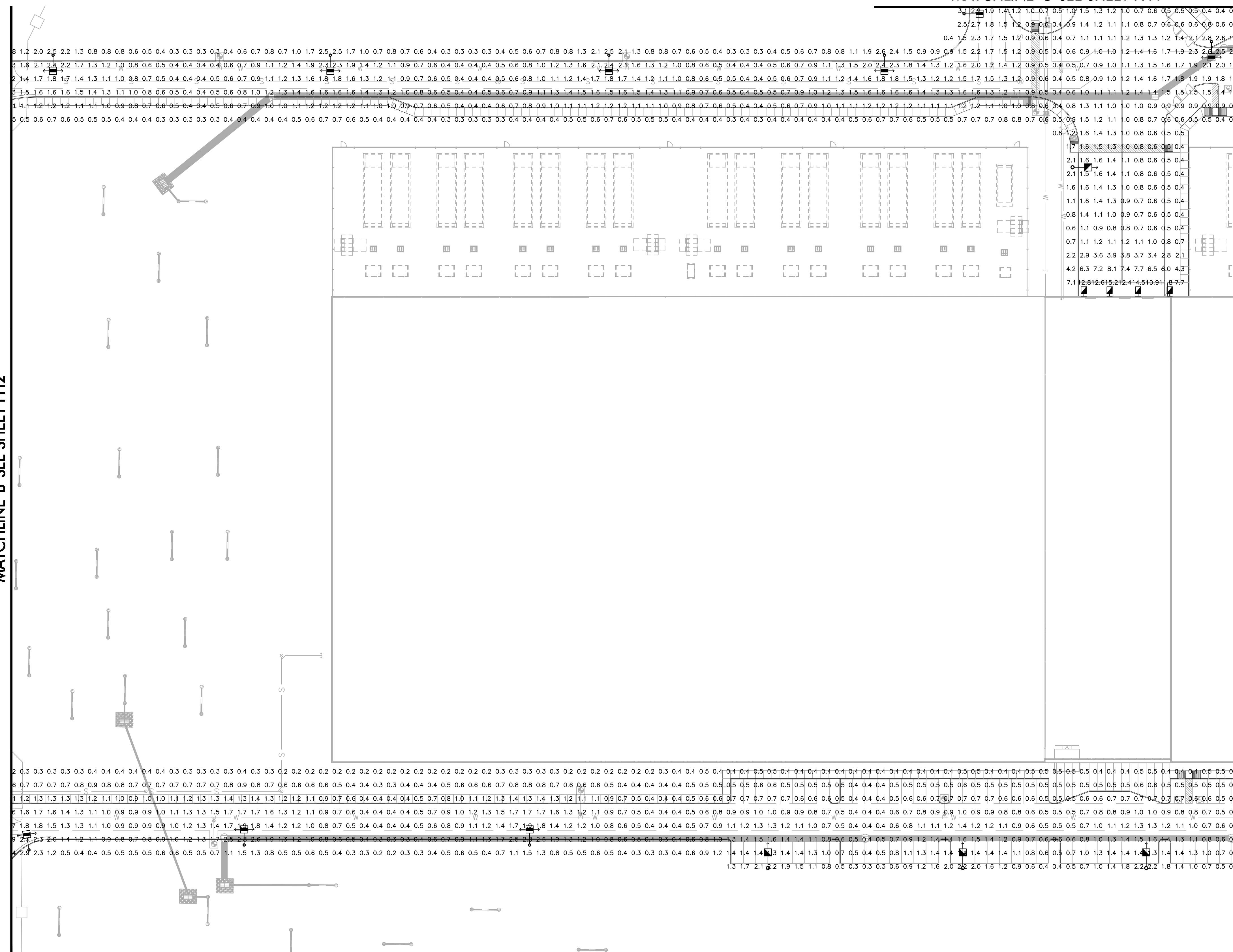
PHOTOMETRIC LEGEND

- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-5W0
candela file 'GALN-SA2C-730-U-5W0_13476 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 7, number luminaires= 7
kw all locations= 0.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL3
candela file 'GALN-SA2C-730-U-SL3_12762 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 17, number luminaires= 17
kw all locations= 1.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-T4FT
candela file 'GALN-SA2C-730-U-T4FT_12847 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 33, number luminaires= 33
kw all locations= 3.6
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL2
candela file 'GALN-SA2C-730-U-SL2_12852 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 75, number luminaires= 75
kw all locations= 8.1
- COOPER LIGHTING SOLUTIONS
IST-SA1E-730-U-T4W
candela file 'IST-SA1E-730-U-T4W.ies'
16 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 58
mounting height= 12 ft
number locations= 66, number luminaires= 66
kw all locations= 3.8
- Lithonia Lighting WDG3 LED P2 70CRI R4 40K
candela file 'WDG3 LED P2 70CRI R4 40K.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 59
mounting height= 12 ft
number locations= 86, number luminaires= 86
kw all locations= 5.1



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PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us Project # 23266

MATCHLINE 'C' SEE SHEET PH4



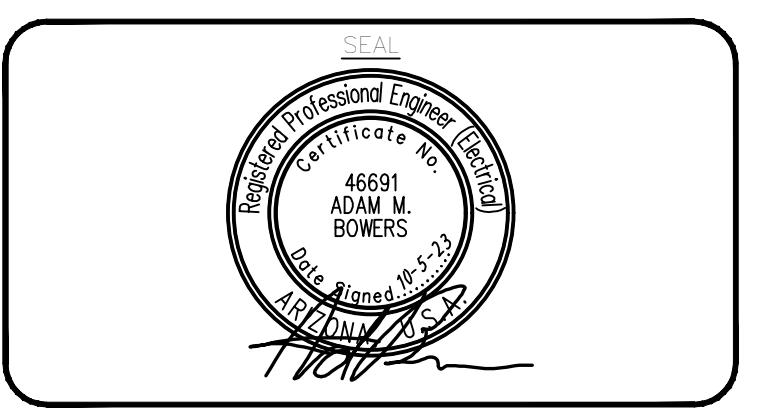
MATCHLINE 'B' SEE SHEET PH2

MATCHLINE 'D' SEE SHEET PH6

edgeconnex
SITE ID: EDCPH11
ADDRESS:
3261 S. HAWES RD
MESA, AZ 85212

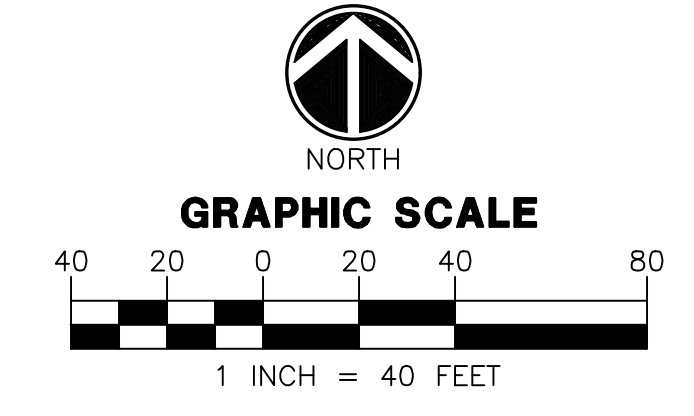
ISSUES & REVISIONS

No.	Date	Description



SHEET TITLE
SITE PHOTOMETRIC PLAN

DRAWN: TDN
REVIEWED: AMB
PROJECT NO.: C2383
SHEET NO.
PH4
PROPRIETARY: NOT FOR DISCLOSURE OR USE WITHOUT THE WRITTEN CONSENT OF BURR COMPUTER ENVIRONMENTS, INC.

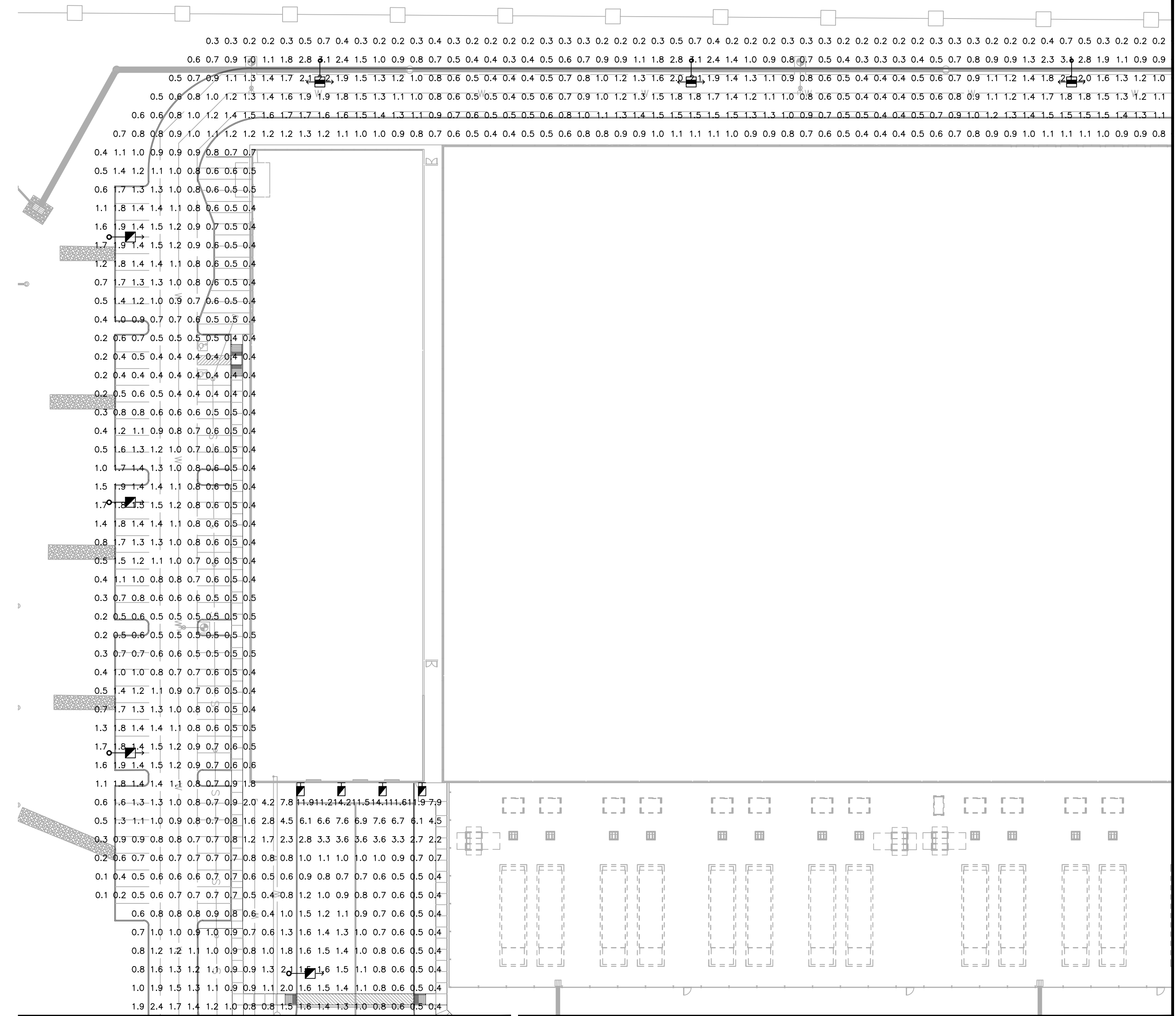


PHOTOMETRIC LEGEND

- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-5WQ
candela file 'GALN-SA2C-730-U-5WQ_13476 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 7, number luminaires= 7
kw all locations= 0.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL3
candela file 'GALN-SA2C-730-U-SL3_12762 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 17, number luminaires= 17
kw all locations= 1.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-T4FT
candela file 'GALN-SA2C-730-U-T4FT_12847 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 33, number luminaires= 33
kw all locations= 3.6
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL2
candela file 'GALN-SA2C-730-U-SL2_12852 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 75, number luminaires= 75
kw all locations= 8.1
- COOPER LIGHTING SOLUTIONS
IST-SA1E-730-U-T4W
candela file 'IST-SA1E-730-U-T4W.ies'
16 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 58
mounting height= 12 ft
number locations= 66, number luminaires= 66
kw all locations= 3.8
- Lithonia Lighting WDG3 LED P2 70CRI R4 40K
candela file 'WDG3 LED P2 70CRI R4 40K.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 59
mounting height= 12 ft
number locations= 86, number luminaires= 86
kw all locations= 5.1

CALCULATIONS

Parking Lot
7519 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 1.0
Maximum 16.2
Minimum 0.1
Avg:Min 10.10
Max:Min 162.00
Coef Var 1.01
UnifGrad 8.49



MATCHLINE 'B' SEE SHEET PH2

MATCHLINE 'E' SEE SHEET PH5

MATCHLINE 'C' SEE SHEET PH3

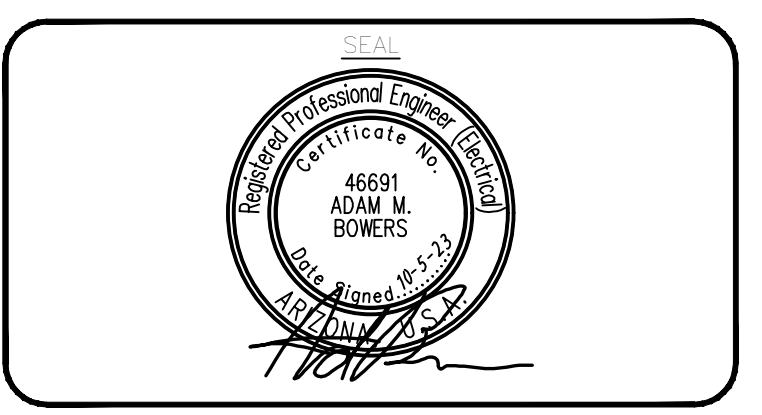
MATCHLINE 'F' SEE SHEET PH6

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Arizona Blue Stake, Inc.
Dial 311 or 1-800-STAKE-IT (782-5346)

WRIGHT
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ELECTRICAL ENGINEERING AND DESIGN
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PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us Project # 23266

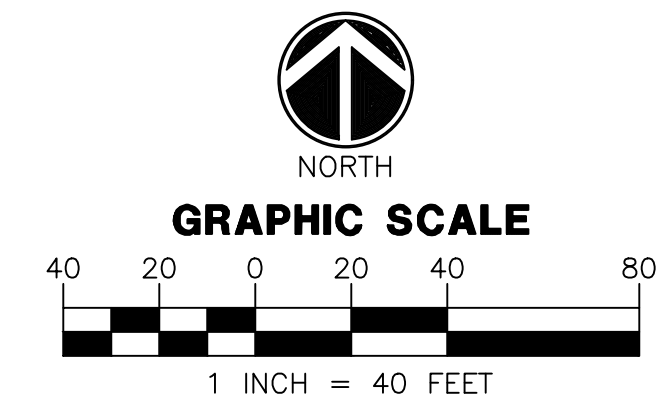
edgeconnex
SITE ID: EDCPHX11
ADDRESS
3261 S. HAWES RD
MESA, AZ 85212

ISSUES & REVISIONS		
No.	Date	Description



SHEET TITLE
SITE PHOTOMETRIC PLAN

DRAWN: TDN
REVIEWED: AMB
PROJECT NO.: C2383
SHEET NO.
PH5
PROPRIETARY: NOT FOR DISCLOSURE OR USE WITHOUT THE WRITTEN CONSENT OF BURR COMPUTER ENVIRONMENTS, INC.



PHOTOMETRIC LEGEND

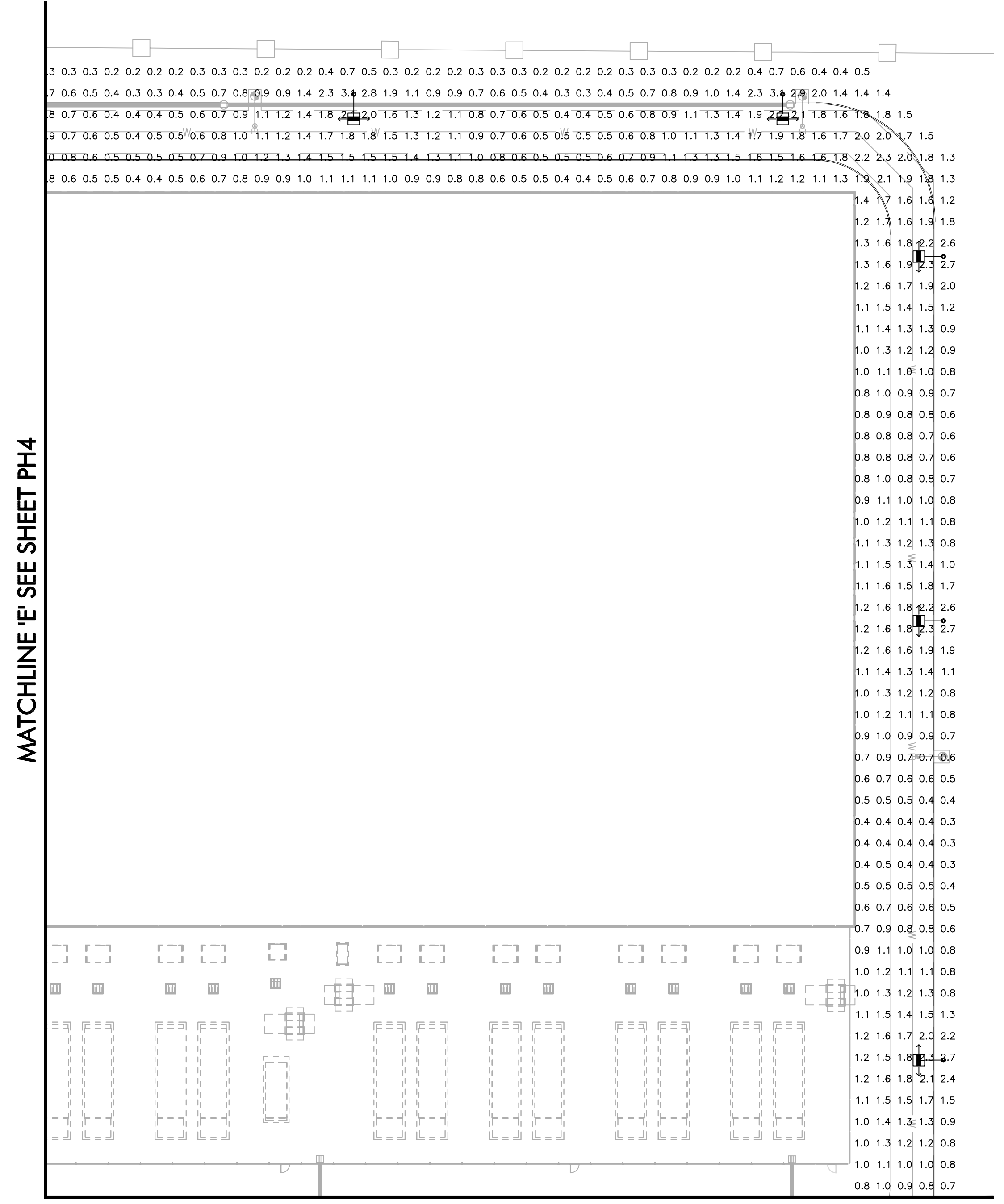
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-5WC
candela file 'GALN-SA2C-730-U-5WC_13476 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 7, number luminaires= 7
kw all locations= 0.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL3
candela file 'GALN-SA2C-730-U-SL3_12762 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 17, number luminaires= 17
kw all locations= 1.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-T4FT
candela file 'GALN-SA2C-730-U-T4FT_12847 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 33, number luminaires= 33
kw all locations= 3.6
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL2
candela file 'GALN-SA2C-730-U-SL2_12852 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 75, number luminaires= 75
kw all locations= 8.1
- COOPER LIGHTING SOLUTIONS
IST-SA1E-730-U-T4W
candela file 'IST-SA1E-730-U-T4W.ies'
16 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 58
mounting height= 12 ft
number locations= 66, number luminaires= 66
kw all locations= 3.8
- Lithonia Lighting WDG3 LED P2 70CRI R4 40K
candela file 'WDG3 LED P2 70CRI R4 40K.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 59
mounting height= 12 ft
number locations= 86, number luminaires= 86
kw all locations= 5.1

CALCULATIONS

Parking Lot
7519 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 1.0
Maximum 16.2
Minimum 0.1
Avg:Min 10.10
Max:Min 162.00
Coef Var 1.01
UnifGrad 8.49



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165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us Project # 23266



MATCHLINE 'E' SEE SHEET PH4

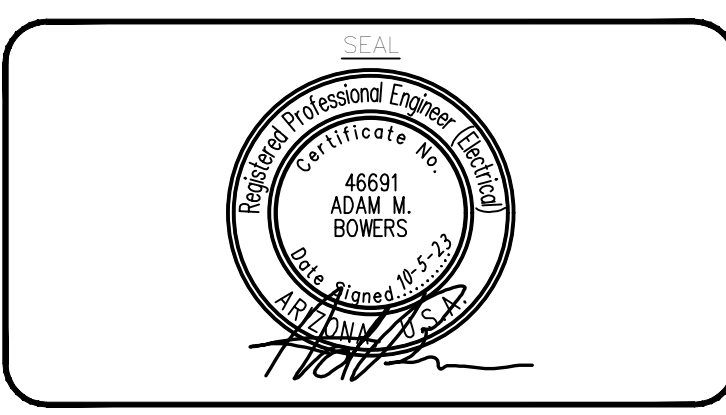
MATCHLINE 'F' SEE SHEET PH6

edgeconnex

SITE ID: EDCPH11
ADDRESS
3261 S. HAWES RD
MESA, AZ 85212

ISSUES & REVISIONS

No.	Date	Description

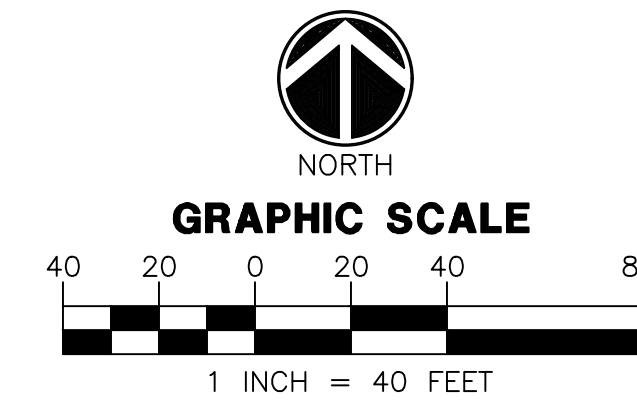


SHEET TITLE
SITE PHOTOMETRIC PLAN

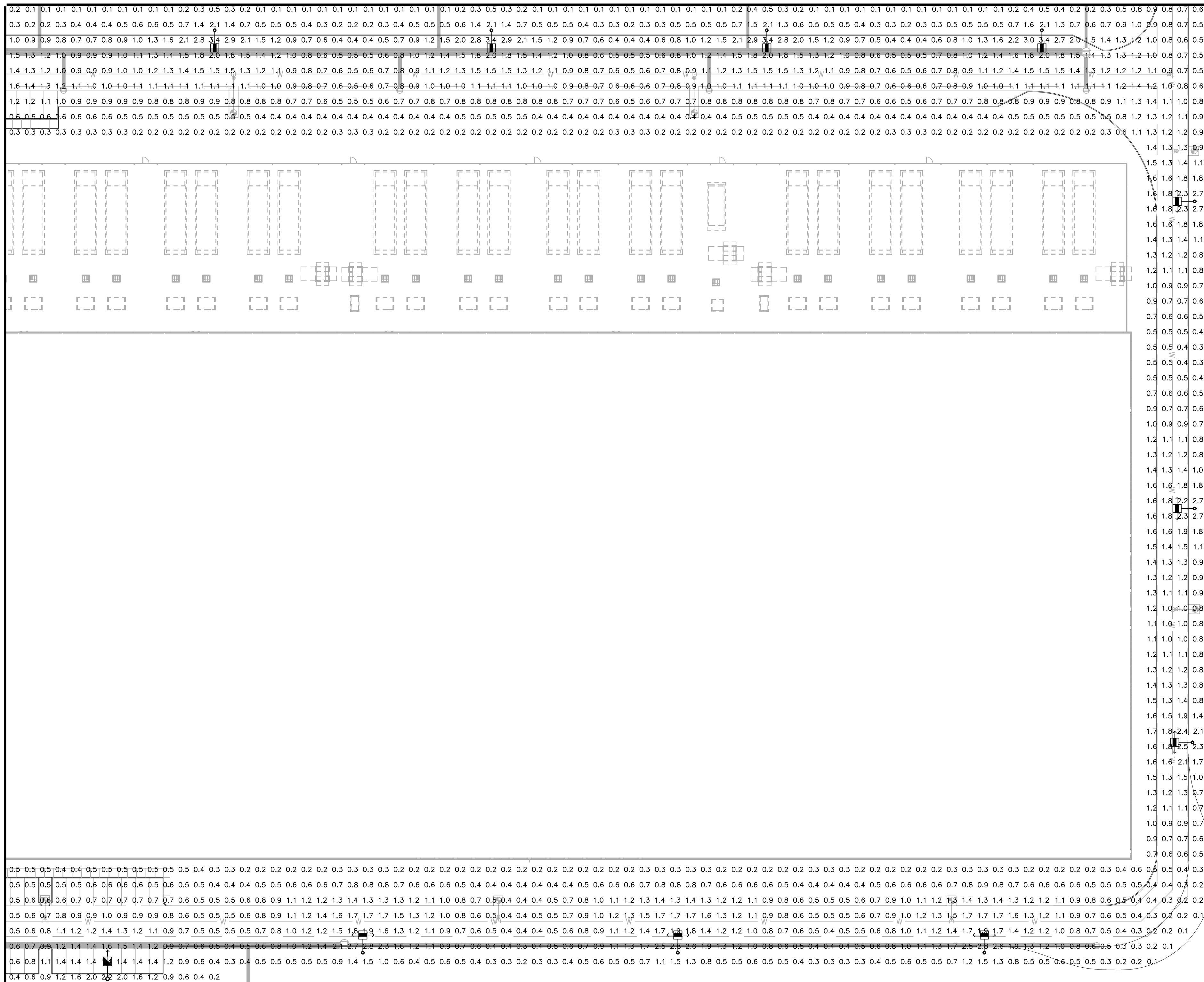
DRAWN: TDN
REVIEWED: AMB
PROJECT NO.: C2383

SHEET NO.
PH6

PROPRIETARY - NOT FOR DISCLOSURE OR USE WITHOUT THE WRITTEN CONSENT OF BURR COMPUTER ENVIRONMENTS, INC.



MATCHLINE 'F' SEE SHEETS PH4/PH5



PHOTOMETRIC LEGEND

- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-5WQ
candela file 'GALN-SA2C-730-U-5WQ_13476 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 7, number luminaires= 7
kw all locations= 0.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL3
candela file 'GALN-SA2C-730-U-SL3_12762 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 17, number luminaires= 17
kw all locations= 1.8
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-T4FT
candela file 'GALN-SA2C-730-U-T4FT_12847 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 33, number luminaires= 33
kw all locations= 3.6
- COOPER LIGHTING SOLUTIONS - McGRAW-EDISON
GALN-SA2C-730-U-SL2
candela file 'GALN-SA2C-730-U-SL2_12852 lumens.ies'
32 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 108
mounting height= 30 ft
number locations= 75, number luminaires= 75
kw all locations= 8.1
- COOPER LIGHTING SOLUTIONS
IST-SA1E-730-U-T4W
candela file 'IST-SA1E-730-U-T4W.ies'
16 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 58
mounting height= 12 ft
number locations= 66, number luminaires= 66
kw all locations= 3.8
- Lithonia Lighting WDG3 LED P2 70CRI R4 40K
candela file 'WDG3 LED P2 70CRI R4 40K.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 59
mounting height= 12 ft
number locations= 86, number luminaires= 86
kw all locations= 5.1

CALCULATIONS

Parking Lot
7519 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES
Average 1.0
Maximum 16.2
Minimum 0.1
Avg:Min 10:10
Max:Min 162:00
Coef Var 1.01
UnifGrad 8.49



WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us Project # 23266

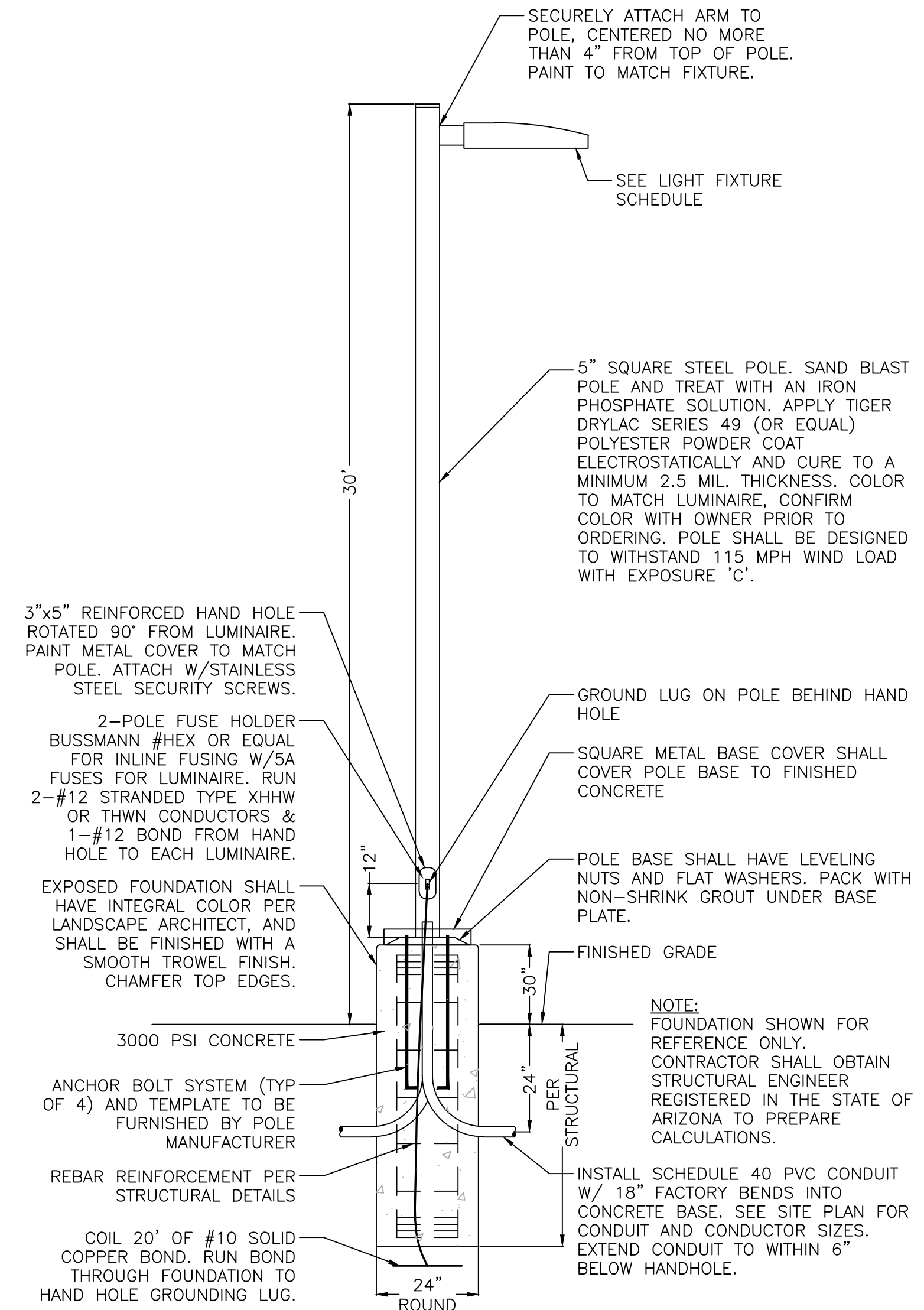
MATCHLINE 'D' SEE SHEET PH3

GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (2017 EDITION), FEDERAL, STATE AND LOCAL JURISDICTION CODES.
- ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION.
- VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME. CONTRACTOR TO CALL 811 FOR BLUE STAKE. FOR ALL MUNICIPAL OR PRIVATELY OWNED UTILITIES EXISTING WITHIN LIMITS OF WORK OF PROJECT, CONTRACTOR TO PRIVATELY LOCATE UTILITIES. IRRIGATION LINES LESS THAN 2" WILL NOT TYPICALLY BE MARKED AND CAUTION SHOULD BE USED TO AVOID DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES CAUSED AS A RESULT OF CONTRACT WORK, ALL DAMAGES TO BE REPAIRED IN KIND.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING WALKS, WALLS, DRIVES, CURBS, ETC. DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- PROPER PROTECTION OF THE CONSTRUCTION AREA FOR SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COVER ALL TRENCHES AT THE END OF EACH WORK DAY. BARRICADES SHALL BE INSTALLED AS DIRECTED BY THE OWNER OR THE PROJECT INSPECTOR. THE SITE AND ALL WORK SHALL CONFORM TO OSHA REQUIREMENTS.
- ALL EXISTING LANDSCAPE, HARDSCAPE AND SPRINKLER SYSTEMS DAMAGED OR DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT BY THE CONTRACTOR SHALL BE REPLACED IN KIND.
- CONTRACTOR SHALL PAY FOR PERMITS AND INSPECTIONS AS MAY BE REQUIRED AND PROVIDE A CERTIFICATE OF INSPECTION TO THE OWNER.
- PROTECT ALL MATERIAL AND EQUIPMENT INSTALLED AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
- LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, BURIED 24" MINIMUM BELOW FINISHED GRADE, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- PROVIDE EMT INDOOR AND GRS OUTDOOR FOR ABOVE GROUND CONDUIT. WHERE METALLIC CONDUITS COME IN CONTACT WITH DIRT, THEY SHALL BE HALF LAP WRAPPED WITH SCOTCH 50 TAPE TO 12" AFG. FITTINGS SHALL BE STEEL THREADED TYPE WITH INSULATED THROATS. SECURELY ATTACH ALL SURFACE MOUNTED CONDUIT EVERY 10 FEET AND WITHIN 3 FEET OF EACH JUNCTION BOX, PER NEC ARTICLE 344.30.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- ALL FEEDERS AND BRANCH CIRCUIT WIRE SHALL BE COPPER TYPE XHHW (75 DEGREE C) FOR BELOW GRADE INSTALLATIONS (AND CONDUIT RISERS) AND THHN/THWN (75 DEGREE C) FOR ABOVE GRADE INSTALLATIONS. MINIMUM SIZE SHALL BE #12 AWG, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS. ALL WIRING SHALL BE IN CONDUIT. FOR NEW WIRING IN COMMERCIAL APPLICATIONS, THE USE OF TYPES NM, NMC, NMS (ROMEX) CABLES IS NOT PERMITTED. ALL CONDUCTORS SHALL BE NEW UNLESS NOTED OTHERWISE IN PLANS.
- A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR (BOND) SHALL BE INSTALLED WITHIN EACH RACEWAY, INCLUDING WITHIN EMT CONDUIT. EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER NEC TABLE 250.122.
- WHEN A PANEL IS SUPPLIED BY A FEEDER OR BRANCH CIRCUIT, ANY INSTALLED GROUNDED CONDUCTOR SHALL NOT BE CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR (GEC) OR TO THE GROUNDING ELECTRODE(S) PER NEC ARTICLE 250.32(B).
- BOND ALL ENCLOSURES PER NEC ARTICLE 250.96.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, ETC. NECESSARY FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM WHETHER OR NOT THESE ITEMS ARE SPECIFICALLY NOTED ON THESE DRAWINGS. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN SPECIFICATIONS THAT CAN BE LEGITIMATELY AND REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED AND INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE ALL LABOR, MATERIAL, TRENCHING, CONDUIT, TRANSFORMER PAD AND OTHER REQUIRED EQUIPMENT PER UTILITY COMPANY PLANS AND SPECIFICATIONS NECESSARY FOR A COMPLETE UNDERGROUND CONDUIT SYSTEM FROM THE UTILITY POINT OF SERVICE TO THE UTILITY CO. TRANSFORMER AND FROM THE UTILITY CO. TRANSFORMER TO THE ELECTRICAL SERVICE ENTRANCE SECTION.
- ALL TRENCHING, CONDUITS, ETC. SHALL BE ROUTED AND INSTALLED IN SUCH A MANNER THAT WILL NOT DAMAGE EXISTING FACILITIES. SHOULD DAMAGE OCCUR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR DAMAGE TO THE SATISFACTION OF THE OWNER OR INSPECTOR.
- ALL CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MAKE SURE THAT ALL CONDUIT, ETC. FALLS WITHIN THE CONSTRUCTION AREA/RIGHT OF WAY. (THIS INCLUDES MAINTAINING ALL REQUIRED CLEARANCES.)
- WHEN CROSSING PATHWAYS OR SIDEWALKS, CONTRACTOR SHALL BORE UNDER EXISTING CONCRETE WALKS AND SAWCUT ASPHALT WALKS. ASPHALT WALKS SHALL BE REPLACED IN KIND.
- CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, USUAL WEAR EXCEPTED, AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE PROJECT BY THE OWNER, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS AND DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER.
- CONTRACTOR SHALL IDENTIFY SERVICE ENTRANCE SECTION MAIN SERVICE DISCONNECT(S) WITH 3/32-INCH THICK LAMINATED PHENOLIC TYPE NAMEPLATES WITH 1/4-INCH MINIMUM HEIGHT LETTERS. NAMEPLATE TO BE BLACK MATTE FINISH SURFACE WITH WHITE LETTER ENGRAVING. ATTACH NAMEPLATE TO THE OUTSIDE PANEL FACE WITH TWO STAINLESS STEEL SELF-TAPPING SCREWS. NAMEPLATE SHALL READ "SERVICE DISCONNECT" PER NEC ARTICLE 230.70(B).
- ALL CIRCUITS SHALL BE LEGIBLY IDENTIFIED AT THE PANEL, JUNCTION BOXES AND AT ALL EQUIPMENT IN A PERMANENT MANNER (I.E. ETCHED PLATES, CONDUCTOR TAG, PERMANENT MARKER, ETC.). THE LABELING SHALL INCLUDE PANEL CIRCUIT NUMBER, "TO" AND "FROM" IDENTIFICATION, AND MARKED "SPARE" WHERE APPLICABLE.
- CONTRACTOR SHALL TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS AND MEGGER TEST FEEDER CIRCUIT WIRING. PROVIDE CERTIFIED TEST RESULTS FOR MEGGER TEST TO OWNER UPON COMPLETION OF PROJECT.
- CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL FUSED DISCONNECT SWITCHES AND CONTROLS IF OVERCURRENT PROTECTION OR CONTROLS IS NOT INTEGRAL WITH UNITS.
- ALL EQUIPMENT SHALL BE FUSE SIZED PER MANUFACTURES RECOMMENDATIONS AND BEAR U.L. APPROVAL. COORDINATE WITH ENGINEER/OWNER.
- ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC., SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATIONS.
- FULL LOAD AMPS (FLA) SIZES, AS NOTED IN THESE DRAWINGS, ARE BASED ON SPECIFIED EQUIPMENT DATA. CONTRACTOR SHALL VERIFY NAMEPLATE FLA OF EQUIPMENT SUPPLIED AND COORDINATE ACCORDINGLY PER EQUIPMENT SUPPLIERS RECOMMENDATIONS.
- ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R OR NEMA-4 ENCLOSURES.
- CONDUITS OR RACEWAYS ROUTED FROM INDOORS TO OUTDOORS OR AS DESCRIBED IN NEC 300.7(A), SHALL BE SEALED WITH A PLIABLE SEALING COMPOUND AT A CONDUIT BODY OR AT A JUNCTION BOX BEFORE THE CONDUIT ENTERS THE COLDER ENVIRONMENT.
- CONDUITS OR RACEWAYS INSTALLED IN AREAS WHERE ELEVATION CHANGES MAY CAUSE WATER OR MOISTURE TO ENTER THE ELECTRICAL EQUIPMENT THROUGH THE CONDUIT SHALL BE SEALED WITH A HERMETIC CONDUIT SEAL AT

BOTH ENDS OF THE CONDUIT OR RACEWAY.

- INSTALL FIRE SEALS IN ALL CONDUITS PENETRATING THE FIRE WALL TO MAINTAIN THE FIRE RESISTANCE RATING OF THE WALL, AS REQUIRED BY NEC 300.21.
- ALL POLE LIGHTS SHALL BE PROVIDED WITH A TWO POLE FUSE HOLDER BUSSMANN #HEX OR A SINGLE POLE FUSE HOLDER BUSSMANN #HEB OR EQUAL FOR INLINE FUSING, PROVIDE 5 AMP FUSING IN FUSEHOLDER.
- PRIOR TO POURING THE POLE BASES OR COVERING ANY ELECTRICAL CONDUITS, CONTACT THE INSPECTION DEPARTMENT 24 HOURS IN ADVANCE FOR APPROVAL.
- MATERIALS SHALL BE NEW AND OF THE BEST QUALITY WITH MANUFACTURER'S NAME PRINTED THEREON. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, UNDERWRITER'S LABORATORY OR OTHER APPLICABLE STANDARDS AND RATED FOR HEAVY DUTY SERVICE.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. ALL 15 AND 20 AMP, 125 AND 250 VOLT, NONLOCKING RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED WEATHER-RESISTANT TYPE. RECEPTACLE COVERS IN WET LOCATIONS SHALL BE EXTRA DUTY PER NEC 406.9(B). ALL WEATHERPROOF WHILE IN-USE RECEPTACLE COVERS SHALL BE METAL.
- SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS. THE USE OF MANUFACTURER'S NAME, MODEL, AND NUMBER IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. CONTRACTOR SHALL SUBMIT TO THE OWNER OR OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL (PRIOR TO ORDERING MATERIALS) COPIES OF EQUIPMENT SHOP DRAWINGS AS FOLLOWS: LIGHT FIXTURES, POLES, POLE BASES, SERVICE ENTRANCE SECTION, ELECTRICAL EQUIPMENT, DISCONNECT SWITCHES, TIME CLOCKS AND OTHER CONTROLS, LIGHTING CONTACTORS AND PULL BOXES. AT THE TIME OF EACH SUBMITTAL, THE CONTRACTOR SHALL DEFINE AND DELINEATE IN WRITING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. THE REVIEW WILL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE WORK AND FOR COMPLIANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. THE REVIEW OF A SPECIFIED ITEM, AS SUCH, WILL NOT INDICATE REVIEW OF THE ASSEMBLY IN WHICH THE ITEM FUNCTIONS. REVIEW BY THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE SUBMITTALS NOR FROM HIS RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
- THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION INSTRUCTIONS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED.



FOUNDATION MOUNTED STEEL AREA LIGHT DETAIL

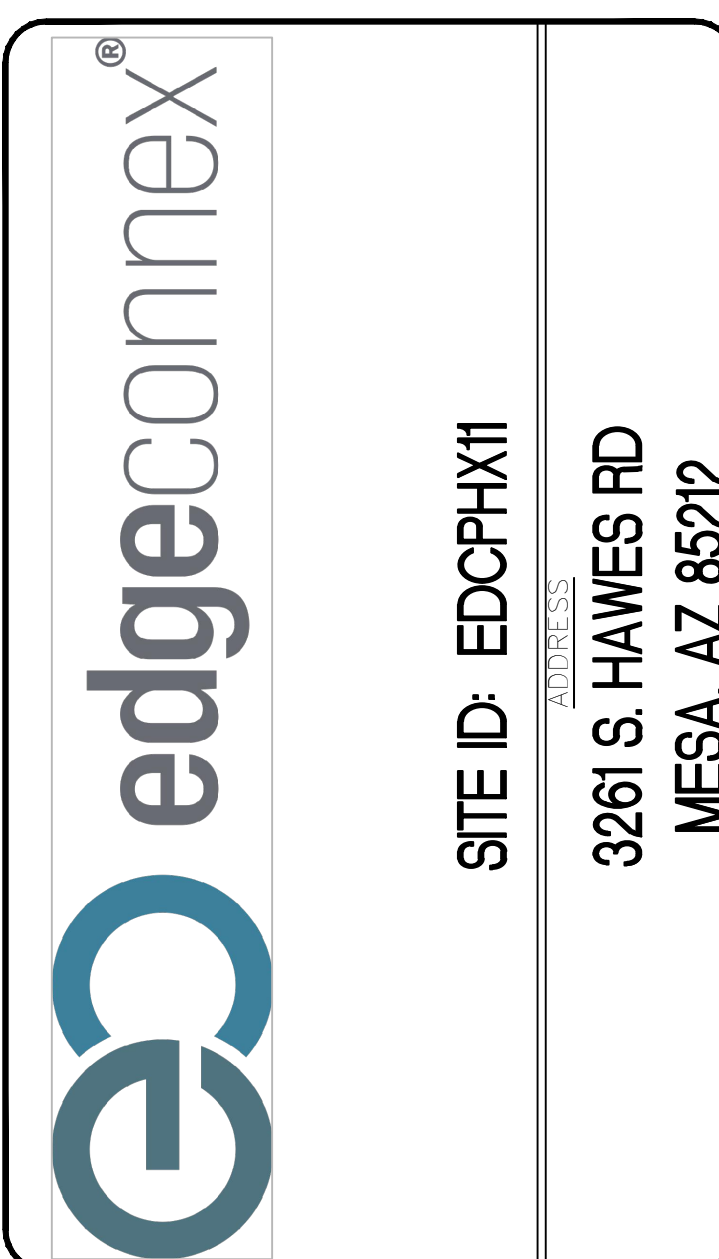
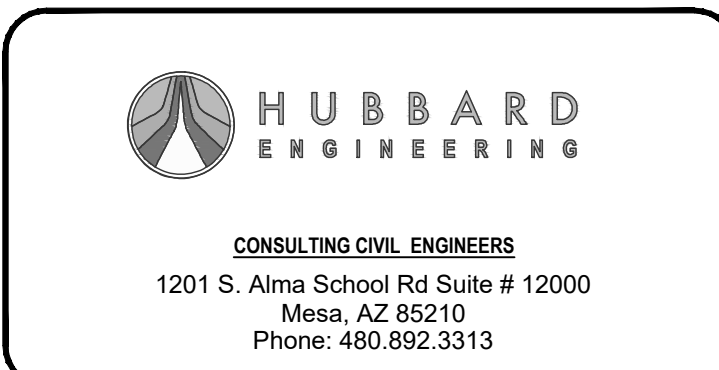
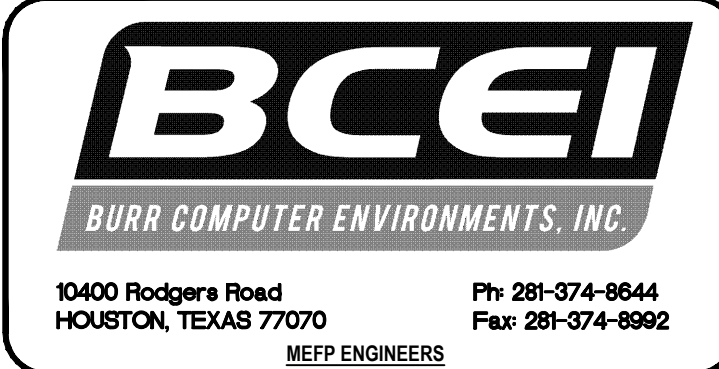
NO SCALE

POLE-MOUNTED LIGHT FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	VOLTS	LAMP(S)	CCT	DETAIL
	COOPER LIGHTING ALT: LITHONIA	GALN-SA2-C-730-U-5WQ-BZ	120-277	108W LED	3000K	PARKING LOT LIGHT DETAIL ON PH8
	COOPER LIGHTING ALT: LITHONIA	GALN-SA2-C-730-U-SL3-BZ	120-277	108W LED	3000K	PARKING LOT LIGHT DETAIL ON PH8
	COOPER LIGHTING ALT: LITHONIA	GALN-SA2-C-730-U-T4FT-BZ	120-277	108W LED	3000K	PARKING LOT LIGHT DETAIL ON PH8
	COOPER LIGHTING ALT: LITHONIA	GALN-SA2-C-730-U-SL2-BZ	120-277	108W LED	3000K	PARKING LOT LIGHT DETAIL ON PH8

NOTES:

- CONTRACTOR SHALL VERIFY ALL QUANTITIES.
- SHOP DRAWINGS FOR EQUAL ALTERNATE FIXTURES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.



ISSUES & REVISIONS		
No.	Date	Description

